

**CRYPTOGRAPHY BASED LOW DISTORTION ROBUST DATA AUTHENTICATION
SYSTEM AND METHOD THEREFOR**

ABSTRACT OF THE DISCLOSURE

A method (and system) for generating an output file from a source file where benign
5 modifications to a content of the output file still render the output file authentic, includes
constructing an index vector from the source file, quantizing the source file, generating an
authentication mark from the quantized source file and the index vector, generating an
authentication tag by appending the index vector to the authentication mark, and generating the
output file by appending the authentication tag to the source file.